

Abstract

"Process for the treatment of the circulating water in painting booths"

- 5 A process for the treatment of the circulating water in painting booths, wherein the paint particles are dispersed by addition of dispersants which are selected from:
- (a) homo- and co-polymers based on maleic acid, acrylic acid and/or methacrylic acid having molecular weights of between 2,500 and 500,000;
 - (b) non-ionic surfactants;
 - (c) anionic surfactants, no polyaspartic acid being additionally added to the
 - 10 circulating water in this case;
 - (d) inorganic or non-polymeric organic complexing agents and mixtures thereof; and the total concentration thereof is between 0.01 and 2.0 wt.% based on the circulating water; and a process for the treatment of the circulating water in painting booths, wherein the circulating water has a hardness of at least 2° German hardness
 - 15 and wherein the paint particles are dispersed by addition of dispersants in a concentration between 0.01 and 2.0 wt.% based on the circulating water in such a way that they exhibit an average particle size, which may be determined by means of laser diffraction, of below 20 μm .